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Applicant's or agent's file reference 772-1041 in anional application No

ERNICKE AUGSBURG

See item 4 below

Priority date (day/manth/year)

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PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

FOR FURTHER ACTION

International filing date (day/month/year)

PCT/EP2004/006113	07 June 2004 (07.06.2004)	17 June 2003 (17.06.2003)
International Patent Classific See relevant Information in	ration (8th odition unless older adition indicated) n Form PCT/ISA/237	
Applicant KUKA SCHWEISSANLAG	EN GMBH	
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	aliminary report on patentability (Chapter I) is issued l ng Authority under Rule 44 bis.1(n).	by the International Bureau on behalf of the
2. This REPORT consis	sts of a total of 8 sheets, including this cover sheet.	
	s, any reference to the written opinion of the Internation	onal Searching Authority should be read as a reference

This report contains indications relating to the following items: Box No. I Basis of the report Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44b)s. (2).

		Date of issuance of this report 01 May 2006 (01.05.2006)
	The International Bureau of WIPO	Authorized officer
	34, chemin des Colombettes 1211 Genova 20, Switzerland	Ellen Moyse
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Form PCT/TB/373 (January 2004)

PATENT COOPERATION TREATY

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Го:					PCT Adalation		
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						(PCT Rule 43bis.1)	
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Box No. III Non-establishment of opinion with				shment of opinion with re	regard to novelty, inventive step and industrial applicability		
	Box No. IV Lack of unity of invention						
	Box No. V Reasoned sincement under Rule 43bit applicability: citations and explanation Box No. VI Certain documents cited				(s.1(a)(f) with regard to novelty, inventive step or industrial one supporting such statement		
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2.	If a d intern then to this in	his one in he the ternational Search	ry Examining IPP.A and the hing Authority	chosen IFEA has notified will not be so considered	t that this does not a the International Bu	rill be considered to be a written opinion of the pply where the applicant cheeses an Authority other areas under Rule 66.1bis(b) that written apinions o	
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S. 07

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/0061.1.3

Bas	x Nn. T Baxis of this optnion
1.	With regard to the language, this opinion has been established on the hasis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Role (2.3 and 23.1(b)).
2.	With regard to any audiostica and/or amino acid equance disclosed in the international application and necessary to the elaimed invention, this opinion has been exabilished on the basis of
	o. Type of material
	a sequence Italing
	table(6) related to the sequence listing
	b. format of material
l	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
ŀ	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating flucture has been filled or formisted, the required statements that the information in the optopent or additional copies is identical to that in the application as filled or flock on the polynomial of the application as filed, as appropriate, were firmished.
4.	Additional comments:
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International application No. WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY PCT/EP2004/006113 Box No. 11 Priority 1. The following document has not yet been furnished: copy of the earlier application whose priority has been claimed (Rule 43his.1 and 66.7(a)). translation of the certier application whose priority has been alsimed (Rule 43bis.1 and 66.7(b)). Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertholess been established on the assumption that the relevant date in the clasmed priority date. 2. This opinion has been established as if no pelority had been claimed dose to the fact that the priority claim has been found invalid (Rules 43bls, Land 64.1). Thus for the preposes of this opinion, the international filing data indicated above is considered to be the relevant date. Additional observations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/006113

. Sistement				
Novelty (Nı	Claims	12-15, 18, 19, 21-23	Y
		Claims	1-11, 16, 17, 20	_ NO
Inventive	mcp (IS)	Claims	14, 15, 18, 19	_ r
		Claims	1-13, 16, 17, 20-23	, N
Industrial	applicability (IA)	Claims	1-23	_ ~
		Claims		_ N

2. Citations and explanations:

1. Reference is made to the following documents:

D1: Patent Abstracts of Japan, volume 1996, number 02, 29
February 1996 & JF 7295091 A (K G K:KK), 31 October 1995
D2: EP 0386729 A (Eckard Design GmbH), 12 September 1990
D3: EP 1216798 A (Genus Technologies), 26 June 2002

2. Independent claim 1

The subject matter of claim 1 is not novel within the meaning of PCT Article 33(2). Document D1 namely discloses (the references between parentheses relate to this document):

a gripping device for workpieces which is guided by a manipulator, the gripping device having a plurality of apparatus parts (2, 6) and a securing device for fixing geometry changes (by means of the switch 18), and the securing device having a deflection securing device (3, 7), which prevents collisions, on the apparatus parts.

As a consequence, all the features of claim 1 are known from D1.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY Imernational application No. PCT/EP2004/006113

Rox No. V Remond distance under Rule 43bin 1(a)ri) with regard to mirelty, inventive step or industrial applicability;

Document D2 also discloses all the features of claim 1.

3. Dependent claims 2-13, 16, 17, 20-23

In view of the disclosure of documents D1 and D2, claims 2 to 13, 16, 17, and 20 to 23 do not appear to contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty and inventive step. The applicant is invited to comment on the following statements:

- claim 2: see D1, connecting parts between the robot arm
 (B) and the robot hand (A)
- claim 3: see D1, securing parts (3) and (7)
- Claim 4: see D1, clamping and frictional connection by means of the spring (11)
- claim 5: see D1, latching element (14)
- claim 6: see D1, securing parts (3) and (7) connected or with apparatus parts (A) and (B)
- claim 7: see D1, latching element (14) between securing parts (3) and (7)
- claims 8 & 9: see D1, spring (15)
- claim 10: see D1, sphere (3) and enclosing mounting (7)
- claim 11: see D2, joint ball (3) and straight tube section (5)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/006113

Bux No. V Reasoned statement under Rule 43bis, 1(s)(i) with regard to novely, inventive step or industrial applicability: citations and explanations supporting such statement.

- claims 12 & 13: not inventive because the annular collar is known from D2 and the enclosing cap is known from D1 $\,$
- claims 16 & 17: see D1, detector (18)
- claim 20: it is mentioned in the description of D1 that the drives of the robot are brought to a standstill if an overload signal is transmitted. It goes without saying that a controller is required to evaluate this signal and to control the drives.
- claims 21 to 23: D3 discloses a gripping device for cax-body parts, comprising a frame having a plurality of gripping or clamping elements and having a docking point for connection to a manipulator. The expert would use the securing devices disclosed in D1 for a gripping device as per D3, without thereby being inventive.

4. Dependent claims 14, 15, 18, 19

The combination of features contained in dependent claims 14, 15, 18 and 19 appears to be neither known from the present prior art nor rendered obvious by it.

5. Industrial applicability

Cloims 1 to 23 meet the requirements of PCT Article 33(4) for industrial applicability.

6. Other comments

The applicant is requested to check the reference of dependent claims 4 to 23 to the other claims. For

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

PCT/EP2004/006113

Box No. V Reasoned statement under Rule 43his.1(a)(i) with regard to novely, inventive step or industrial applicability. citations and explanations supporting such statement example, claim 4 should not be worded as "Gripping device according to claim 1, 2 or 3" but as "Gripping device according to claim 3", as it refers to the securing parts (11, 12) which are defined only in claim 3.